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## Product Data Sheet

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Product Name: ATG3 Human  
 Cat. No.: GP22794  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	APG3; APG3-LIKE; APG3L; PC3-96; Ubiquitin-like-conjugating enzyme ATG3; Autophagy-related protein 3; hApg3; PC3-96; ATG3.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMQNVINT VKGKALEVAE YLTPVLKESK FKETGVITPE EFVAAGDHLV HHCPTWQWAT GEELKVKAYL PTGKQFLVTK NVPCYKRCKQ MEYSDELEAI IEEDDGDGGW VDTYHNTGIT GITEAVKEIT LENKDNIRLQ DCSALCEEEE DEDEGEAADM EYEESGLLE TDEATLDTRK IVEACKAKTD AGGEDAILQT RTYDLYITYD KYYQTPRLWL FGYDEQRQPL TVEHMYEDIS QDHVKKTVTI ENHPLPPPP MCSVHPCRHA EVMKKIETV AEGGGELGVH MYLLIFLKFV QAVIPTIEYD YTRHFTM.		
Formulation	ATG3 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl and 10% glycerol.		

### Introduction

Autophagy Related 3 (ATG3) is a conjugating enzyme essential for the cytoplasm to vacuole transport (Cvt), autophagy, and mitochondrial homeostasis. ATG3 localizes to the cytoplasm and is expressed in tissues with predominant levels found in kidney, placenta, liver, heart and skeletal muscle. ATG3 catalyzes a reaction which is necessary for autophagy. That reaction is the formation of the Atg8-phosphatidylethanolamine (ATG-PE) conjugate.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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ATG3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 337 amino acids (1-314 a.a) and having a molecular mass of 38.3kDa. ATG3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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